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TITLE: STEEL EXCELLENT IN HIGH
TEMPERATURE CORROSION
RESISTANCE IN THE PRESENCE
OF CHLORIDE
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ABSTRACT:

PURPOSE: To provide a steel with excellent
corrosion resistance even in a high temp.
environment where chlorides are present by

specifying the content of C, Si, Mn, Cr, Ni, Mo, etc., in a steel.

CONSTITUTION: The compsn. of an austenitic steel is formed of, by weight, $\leq 0.05\%$ C, $\leq 2\%$ Si, $\leq 2\%$ Mn, 15 to 30% Cr, >30 to 60% Ni, 0.5 to 4% Mo and the balance Fe with inevitable impurities. If required, 0.001 to 0.05% of one or more kinds of Mg and B and one or more kinds among $\leq 0.5\%$ Ti, $\leq 0.5\%$ Al, $\leq 1\%$ Zr, $\leq 0.5\%$ Nb and $\leq 0.15\%$ N are furthermore incorporated therein. This steel shows excellent corrosion resistance in a high temp. dry (wet) corrosive environment where chlorides are present and excellent in high temp. strength, long time stability, weldability, bendability, etc. Thus, the steel is suitable for a sheath heater for electric apparatus for cooking or the like.

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